

Name: _____

p1106: Solve by factoring (v1)

1. Solve the equation

$$x^2 - 5x + 4 = 0$$

2. Solve the equation

$$x^2 + 8x + 15 = 0$$

3. Solve the equation

$$6x^2 - 12x + 54 = 5x^2 + 2x + 9$$

4. Solve the equation

$$5x^2 + 2x - 33 = 4x^2 + 4x - 9$$

5. Solve the equation

$$8x^2 + 21x + 87 = 7x^2 + 3x + 6$$

6. Solve the equation

$$7x^2 + 40x - 12 = 0$$

7. Solve the equation

$$2x^2 + 21x + 40 = 0$$

8. Solve the equation

$$16x^2 - 64x - 24 = 5x^2 - x - 6$$

9. Solve the equation

$$4x^2 - 2x - 4 = 2x^2 - 7x - 7$$

10. Solve the equation

$$12x^2 - 17 = 7x^2 - 3x - 3$$

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p1106: Solve by factoring (v2)

1. Solve the equation

$$x^2 + 2x - 48 = 0$$

2. Solve the equation

$$x^2 + 5x + 6 = 0$$

3. Solve the equation

$$5x^2 + 8x + 57 = 4x^2 - 6x + 8$$

4. Solve the equation

$$7x^2 + 2x - 23 = 6x^2 - 2x - 2$$

5. Solve the equation

$$2x^2 - 8x + 17 = x^2 + 2x - 4$$

6. Solve the equation

$$7x^2 + 40x - 12 = 0$$

7. Solve the equation

$$11x^2 - 18x - 8 = 0$$

8. Solve the equation

$$14x^2 - 28x + 3 = 3x^2 - 9x - 5$$

9. Solve the equation

$$13x^2 - 62x - 87 = 6x^2 - 8x - 6$$

10. Solve the equation

$$13x^2 - 50x + 11 = 2x^2 - 3x - 1$$

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p1106: Solve by factoring (v3)

1. Solve the equation

$$x^2 + x - 56 = 0$$

2. Solve the equation

$$x^2 + 16x + 64 = 0$$

3. Solve the equation

$$3x^2 + 26x + 80 = 2x^2 + 9x + 8$$

4. Solve the equation

$$8x^2 + 5x - 46 = 7x^2 + 6x - 4$$

5. Solve the equation

$$3x^2 - 16x + 53 = 2x^2 - x - 1$$

6. Solve the equation

$$11x^2 - 7x - 4 = 0$$

7. Solve the equation

$$5x^2 + 22x + 8 = 0$$

8. Solve the equation

$$7x^2 - 45x - 37 = 2x^2 - 9x - 5$$

9. Solve the equation

$$10x^2 + 20x - 55 = 7x^2 + 3x + 1$$

10. Solve the equation

$$13x^2 - 112x + 68 = 2x^2 - 5x - 4$$

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p1106: Solve by factoring (v4)

1. Solve the equation

$$x^2 - 10x + 21 = 0$$

2. Solve the equation

$$x^2 - 10x + 16 = 0$$

3. Solve the equation

$$9x^2 - 9x + 30 = 8x^2 + x + 5$$

4. Solve the equation

$$6x^2 + 7x + 34 = 5x^2 - 5x + 2$$

5. Solve the equation

$$6x^2 - 3x - 44 = 5x^2 - x + 4$$

6. Solve the equation

$$11x^2 + 74x - 21 = 0$$

7. Solve the equation

$$7x^2 + 39x + 20 = 0$$

8. Solve the equation

$$4x^2 - 19x - 40 = x^2 - 3x - 5$$

9. Solve the equation

$$6x^2 - 42x - 41 = x^2 - 6x - 9$$

10. Solve the equation

$$4x^2 - 79 = 2x^2 - 9x + 2$$

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p1106: Solve by factoring (v5)

1. Solve the equation

$$x^2 - 81 = 0$$

2. Solve the equation

$$x^2 - 2x - 15 = 0$$

3. Solve the equation

$$5x^2 + 2x + 24 = 4x^2 - 7x + 6$$

4. Solve the equation

$$6x^2 + 25x + 66 = 5x^2 + 8x - 6$$

5. Solve the equation

$$3x^2 + 5x - 10 = 2x^2 - x + 6$$

6. Solve the equation

$$5x^2 - 49x + 36 = 0$$

7. Solve the equation

$$2x^2 - 13x + 18 = 0$$

8. Solve the equation

$$19x^2 + 73x + 35 = 8x^2 + x - 1$$

9. Solve the equation

$$4x^2 - 17x + 24 = 2x^2 + 4x - 3$$

10. Solve the equation

$$19x^2 - 43x + 15 = 8x^2 - 7x + 6$$

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p1106: Solve by factoring (v6)

1. Solve the equation

$$x^2 + 11x + 24 = 0$$

2. Solve the equation

$$x^2 - 5x - 24 = 0$$

3. Solve the equation

$$6x^2 + 7x - 6 = 5x^2 + 7x - 2$$

4. Solve the equation

$$6x^2 - 1 = 5x^2 - 2x + 2$$

5. Solve the equation

$$3x^2 + 4x - 50 = 2x^2 + 3x + 6$$

6. Solve the equation

$$3x^2 - 8x - 16 = 0$$

7. Solve the equation

$$11x^2 - 80x + 21 = 0$$

8. Solve the equation

$$8x^2 + 30x + 12 = 3x^2 + 8x + 4$$

9. Solve the equation

$$13x^2 - 91x + 43 = 2x^2 - 9x + 8$$

10. Solve the equation

$$7x^2 - 10x - 14 = 2x^2 + 2x - 5$$

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p1106: Solve by factoring (v7)

1. Solve the equation

$$x^2 + 13x + 42 = 0$$

2. Solve the equation

$$x^2 + 3x - 18 = 0$$

3. Solve the equation

$$3x^2 + 6x - 32 = 2x^2 + 4x - 8$$

4. Solve the equation

$$2x^2 + 13x - 17 = x^2 + 5x - 8$$

5. Solve the equation

$$7x^2 - 2x - 18 = 6x^2 - 8x - 2$$

6. Solve the equation

$$7x^2 + 41x + 30 = 0$$

7. Solve the equation

$$11x^2 - 58x - 48 = 0$$

8. Solve the equation

$$4x^2 - 9x - 2 = x^2 + x - 9$$

9. Solve the equation

$$10x^2 + 27x + 35 = 7x^2 + 7x + 3$$

10. Solve the equation

$$10x^2 + 58x - 43 = 3x^2 + 8x + 5$$

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p1106: Solve by factoring (v8)

1. Solve the equation

$$x^2 - 14x + 49 = 0$$

2. Solve the equation

$$x^2 + 9x + 18 = 0$$

3. Solve the equation

$$8x^2 - 4x - 69 = 7x^2 - 2x - 6$$

4. Solve the equation

$$6x^2 + 16x + 22 = 5x^2 + 6x - 3$$

5. Solve the equation

$$2x^2 - 14x + 27 = x^2 - 4x + 3$$

6. Solve the equation

$$3x^2 - 10x + 3 = 0$$

7. Solve the equation

$$7x^2 - 33x - 54 = 0$$

8. Solve the equation

$$4x^2 + 27x + 33 = x^2 + 5x + 9$$

9. Solve the equation

$$16x^2 - 44x + 19 = 5x^2 - 6x + 4$$

10. Solve the equation

$$15x^2 + 70x - 11 = 4x^2 + 7x + 7$$

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p1106: Solve by factoring (v9)

1. Solve the equation

$$x^2 + 3x - 18 = 0$$

2. Solve the equation

$$x^2 + 5x + 6 = 0$$

3. Solve the equation

$$7x^2 + 2x = 6x^2 - 3x + 6$$

4. Solve the equation

$$8x^2 - 6x + 51 = 7x^2 + 9x - 3$$

5. Solve the equation

$$4x^2 - 2x + 7 = 3x^2 + 7x - 7$$

6. Solve the equation

$$7x^2 - 54x - 81 = 0$$

7. Solve the equation

$$7x^2 - 53x - 24 = 0$$

8. Solve the equation

$$6x^2 + 4x - 2 = 4x^2 - 5x + 3$$

9. Solve the equation

$$6x^2 - 47x + 44 = x^2 - 9x - 4$$

10. Solve the equation

$$14x^2 + 20x + 12 = 7x^2 + 4x + 3$$

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p1106: Solve by factoring (v10)

1. Solve the equation

$$x^2 - x - 42 = 0$$

2. Solve the equation

$$x^2 - 10x + 16 = 0$$

3. Solve the equation

$$6x^2 + 10x + 20 = 5x^2 - x + 2$$

4. Solve the equation

$$9x^2 + 13x + 31 = 8x^2 + x - 1$$

5. Solve the equation

$$7x^2 + 7x - 76 = 6x^2 + 8x - 4$$

6. Solve the equation

$$11x^2 - 58x + 15 = 0$$

7. Solve the equation

$$7x^2 - 58x - 45 = 0$$

8. Solve the equation

$$6x^2 + 4x - 27 = x^2 - 9x + 1$$

9. Solve the equation

$$8x^2 - 30x - 82 = 3x^2 + 6x - 1$$

10. Solve the equation

$$13x^2 + 40x - 49 = 2x^2 - 7x - 9$$

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p1106: Solve by factoring (v11)

1. Solve the equation

$$x^2 + 9x + 8 = 0$$

2. Solve the equation

$$x^2 - 11x + 30 = 0$$

3. Solve the equation

$$4x^2 - 4x - 9 = 3x^2 + 2x - 2$$

4. Solve the equation

$$8x^2 + 12x + 62 = 7x^2 - 4x - 1$$

5. Solve the equation

$$6x^2 + 4x + 4 = 5x^2 - 2x - 1$$

6. Solve the equation

$$5x^2 + 17x - 12 = 0$$

7. Solve the equation

$$11x^2 - 85x + 56 = 0$$

8. Solve the equation

$$14x^2 - 5x - 11 = 7x^2 + 7x - 7$$

9. Solve the equation

$$19x^2 - 46x + 7 = 8x^2 + 2x - 9$$

10. Solve the equation

$$9x^2 + 50x + 63 = 4x^2 - 3x - 9$$

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p1106: Solve by factoring (v12)

1. Solve the equation

$$x^2 + 2x - 35 = 0$$

2. Solve the equation

$$x^2 - 4x - 12 = 0$$

3. Solve the equation

$$7x^2 - 6x + 31 = 6x^2 + 7x - 5$$

4. Solve the equation

$$9x^2 + 12x + 10 = 8x^2 + 3x - 4$$

5. Solve the equation

$$9x^2 - 19x + 47 = 8x^2 - 5x - 2$$

6. Solve the equation

$$3x^2 - 16x - 64 = 0$$

7. Solve the equation

$$11x^2 + 30x + 16 = 0$$

8. Solve the equation

$$10x^2 + 32x + 30 = 5x^2 + 6x + 6$$

9. Solve the equation

$$15x^2 - 5x - 9 = 4x^2 + 9x + 7$$

10. Solve the equation

$$12x^2 - 52x + 65 = 7x^2 - 3x - 7$$

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p1106: Solve by factoring (v13)

1. Solve the equation

$$x^2 + 9x + 18 = 0$$

2. Solve the equation

$$x^2 - 10x + 21 = 0$$

3. Solve the equation

$$7x^2 + 2x - 11 = 6x^2 - 5x - 3$$

4. Solve the equation

$$5x^2 + 2x + 2 = 4x^2 + x + 8$$

5. Solve the equation

$$9x^2 + 3x - 17 = 8x^2 - 2x - 3$$

6. Solve the equation

$$2x^2 - 19x + 9 = 0$$

7. Solve the equation

$$2x^2 + 13x - 24 = 0$$

8. Solve the equation

$$7x^2 - 19x + 12 = 2x^2 + 9x - 3$$

9. Solve the equation

$$13x^2 + 34x + 28 = 6x^2 + 4x + 1$$

10. Solve the equation

$$4x^2 - 20x - 27 = x^2 - 7x + 3$$

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p1106: Solve by factoring (v14)

1. Solve the equation

$$x^2 - 13x + 36 = 0$$

2. Solve the equation

$$x^2 - 6x + 5 = 0$$

3. Solve the equation

$$7x^2 + 19x + 41 = 6x^2 + 6x + 5$$

4. Solve the equation

$$2x^2 + 26 = x^2 + 9x + 6$$

5. Solve the equation

$$3x^2 - 8x - 26 = 2x^2 - 3x - 2$$

6. Solve the equation

$$3x^2 - 16x - 35 = 0$$

7. Solve the equation

$$5x^2 - 4x - 12 = 0$$

8. Solve the equation

$$10x^2 + 20x - 40 = 5x^2 - 8x + 9$$

9. Solve the equation

$$5x^2 + 5x + 15 = 2x^2 - 6x + 7$$

10. Solve the equation

$$8x^2 - 21x + 19 = 6x^2 - 8x + 4$$

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p1106: Solve by factoring (v15)

1. Solve the equation

$$x^2 - 8x + 12 = 0$$

2. Solve the equation

$$x^2 - 11x + 30 = 0$$

3. Solve the equation

$$4x^2 - 5x - 15 = 3x^2 - 8x - 5$$

4. Solve the equation

$$9x^2 - 8x + 55 = 8x^2 + 7x + 1$$

5. Solve the equation

$$2x^2 - 3x + 2 = x^2 - 4x + 8$$

6. Solve the equation

$$11x^2 - 98x - 9 = 0$$

7. Solve the equation

$$11x^2 - 63x - 18 = 0$$

8. Solve the equation

$$7x^2 + 22x - 59 = 2x^2 - 5x - 3$$

9. Solve the equation

$$11x^2 - 47x + 19 = 6x^2 - 4x - 5$$

10. Solve the equation

$$7x^2 + 15x + 19 = 5x^2 + 4x + 4$$

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p1106: Solve by factoring (v16)

1. Solve the equation

$$x^2 - 4x - 32 = 0$$

2. Solve the equation

$$x^2 - 17x + 72 = 0$$

3. Solve the equation

$$7x^2 + 12x + 49 = 6x^2 - x + 9$$

4. Solve the equation

$$6x^2 - 2x + 9 = 5x^2 + 7x - 9$$

5. Solve the equation

$$7x^2 + 2x - 13 = 6x^2 - 5x + 5$$

6. Solve the equation

$$7x^2 - 30x + 8 = 0$$

7. Solve the equation

$$5x^2 - 7x - 6 = 0$$

8. Solve the equation

$$4x^2 - 8x - 11 = 2x^2 - 7x + 4$$

9. Solve the equation

$$6x^2 - 4x - 3 = 3x^2 + 7x + 1$$

10. Solve the equation

$$3x^2 + 10x - 11 = x^2 + 9x - 8$$

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p1106: Solve by factoring (v17)

1. Solve the equation

$$x^2 - x - 56 = 0$$

2. Solve the equation

$$x^2 - 5x - 6 = 0$$

3. Solve the equation

$$4x^2 + 19x + 15 = 3x^2 + 8x - 3$$

4. Solve the equation

$$4x^2 - 7x + 47 = 3x^2 + 6x + 7$$

5. Solve the equation

$$3x^2 - 4x - 16 = 2x^2 - 4x + 9$$

6. Solve the equation

$$11x^2 + 52x - 15 = 0$$

7. Solve the equation

$$7x^2 - 32x - 15 = 0$$

8. Solve the equation

$$11x^2 + 34x - 13 = 6x^2 - 5x - 5$$

9. Solve the equation

$$5x^2 - 12x + 15 = 3x^2 + 3x + 8$$

10. Solve the equation

$$6x^2 + 8x - 57 = 4x^2 + 3x + 6$$

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p1106: Solve by factoring (v18)

1. Solve the equation

$$x^2 - 11x + 18 = 0$$

2. Solve the equation

$$x^2 + 5x - 6 = 0$$

3. Solve the equation

$$2x^2 - 5x - 39 = x^2 - 8x + 1$$

4. Solve the equation

$$3x^2 + 2x - 44 = 2x^2 - 2x + 1$$

5. Solve the equation

$$9x^2 + 17x + 45 = 8x^2 + 4x + 5$$

6. Solve the equation

$$5x^2 + 39x - 54 = 0$$

7. Solve the equation

$$3x^2 - 10x - 48 = 0$$

8. Solve the equation

$$12x^2 - 38x - 63 = 7x^2 + x - 9$$

9. Solve the equation

$$10x^2 - 25x - 39 = 7x^2 - 2x - 3$$

10. Solve the equation

$$10x^2 - 14x - 17 = 3x^2 - 4x - 9$$

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p1106: Solve by factoring (v19)

1. Solve the equation

$$x^2 - 5x + 6 = 0$$

2. Solve the equation

$$x^2 + 2x - 24 = 0$$

3. Solve the equation

$$2x^2 + 8x - 7 = x^2 + 6x + 8$$

4. Solve the equation

$$3x^2 - 7x + 10 = 2x^2 - 3x + 7$$

5. Solve the equation

$$3x^2 + 11x + 13 = 2x^2 + 3x - 3$$

6. Solve the equation

$$7x^2 - 27x + 18 = 0$$

7. Solve the equation

$$2x^2 - 27x + 81 = 0$$

8. Solve the equation

$$17x^2 + 78x + 42 = 6x^2 + 4x - 6$$

9. Solve the equation

$$12x^2 + 35x - 10 = x^2 - 5x + 6$$

10. Solve the equation

$$8x^2 - 67x + 62 = x^2 + 2x + 8$$

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p1106: Solve by factoring (v20)

1. Solve the equation

$$x^2 + x - 72 = 0$$

2. Solve the equation

$$x^2 - 11x + 24 = 0$$

3. Solve the equation

$$2x^2 - 7x - 12 = x^2 - 2x - 6$$

4. Solve the equation

$$7x^2 + 5x - 7 = 6x^2 + 5x + 2$$

5. Solve the equation

$$7x^2 + 8x - 21 = 6x^2 + 2x + 6$$

6. Solve the equation

$$2x^2 - 5x - 42 = 0$$

7. Solve the equation

$$5x^2 - 8x + 3 = 0$$

8. Solve the equation

$$6x^2 + 13x - 12 = 3x^2 + 2x + 8$$

9. Solve the equation

$$6x^2 + 19x + 25 = x^2 - 8x - 3$$

10. Solve the equation

$$6x^2 + 18x + 13 = 3x^2 + x + 3$$